



Welcome United States Patent and Trademark Office

[Search Session History](#)[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)[SUPPORT](#)

Mon, 14 Nov 2005, 10:34:06 AM EST

Edit an existing query or
compose a new query in the
Search Query Display.

Search Query Display

Select a search number (#)
to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Recent Search Queries

Results

#1	((rodriguez and network<paragraph>communication) <in>metadata)	100
#2	((((rodriguez and network<paragraph>communication) <in>metadata))<AND>((rodriguez and network<paragraph>communication)<in>metadata) and data packet?))	3
#3	((((rodriguez and network<paragraph>communication) <in>metadata))<AND>((rodriguez and network<paragraph>communication)<in>metadata) and data packet?))	3
#4	network<paragraph>communication and data packet? and point-to-point and broadcast	447
#5	(network<paragraph>communication and data packet? and point-to-point and broadcast<in>metadata)	63
#6	(network<paragraph>communication and data packet? and point-to-point and broadcast<IN>metadata)	63
#7	(network<paragraph>communication and data packet? and point-to-point and broadcast<in>metadata)	63
#8	Network<paragraph>communication and data packet and point- to-point signal and broadcast signal	5




[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) | [Sitemap](#) | [Help](#)

Welcome United States Patent and Trademark Office

Search Results

BROWSE

SEARCH

IEEE XPLORE GUIDE

SUPPORT

Results for "(((rodriguez and network<paragraph>communication)<in>metadata))<and>((rodriguez a..."

Your search matched 3 of 100 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance in Descending** order.

e-mail printer friendly

» Search Options

[View Session History](#)[New Search](#)

Modify Search

☐ Check to search only within this results set
Display Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

Select Article Information

☐ 1. **Resource management for scalably encoded information: the case of image transmission over wireless networks**

Rodriguez, V.;

Multimedia and Expo, 2003. ICME '03. Proceedings. 2003 International Conference on Volume 1, 6-9 July 2003 Page(s):1 - 813-16 vol.1

Digital Object Identifier 10.1109/ICME.2003.1221042

[AbstractPlus](#) | Full Text: [PDF](#)(353 KB) IEEE CNF
☐ 2. **Access delay analysis of adaptive traffic load - type protocols for S-ALOHA and CSMA in EDGE**

Rivero-Angeles, M.E.; Lara-Rodriguez, D.; Cruz-Perez, F.A.;

Wireless Communications and Networking, 2003. WCNC 2003. 2003 IEEE Volume 3, 16-20 March 2003 Page(s):1722 - 1727 vol.3

[AbstractPlus](#) | Full Text: [PDF](#)(369 KB) IEEE CNF
☐ 3. **Data network analysis using NOVA**

Shah, P.; Pixuan Zhou; Jue Wu; Ghiya, V.; Widjaja, I.; Rodriguez, J.J.; Carothers, J.D.; Paldan, D.;

Performance, Computing and Communications, 1998. IPCCC '98., IEEE International 16-18 Feb. 1998 Page(s):124 - 130

Digital Object Identifier 10.1109/PCCC.1998.659926

[AbstractPlus](#) | Full Text: [PDF](#)(808 KB) IEEE CNF
[Help](#) [Contact Us](#) [Privacy & Security](#) [IEEE.org](#)

© Copyright 2005 IEEE - All Rights Reserved

 Indexed by



Welcome United States Patent and Trademark Office

Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)[SUPPORT](#)

Results for "network<paragraph>communication and data packet and point-to-point signal and broadcast signal"

[e-mail](#) [printer friendly](#)

Your search matched **5** of **1255513** documents.

A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

» Search Options

[View Session History](#)[New Search](#)

Modify Search

☐ Check to search only within this results set

 Display Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

Select Article Information

- ☐ **1. Layer 2 and 3 virtual private networks: taxonomy, technology, and standardization efforts**
 Knight, P.; Lewis, C.;
 Communications Magazine, IEEE
 Volume 42, Issue 6, June 2004 Page(s):124 - 131
 Digital Object Identifier 10.1109/MCOM.2004.1304248
[AbstractPlus](#) | Full Text: [PDF](#)(619 KB) IEEE JNL
- ☐ **2. IEEE Standards for Local and Metropolitan Area Networks: Supplement to Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Media Access Control (MAC) Parameters, Physical Layer, Medium Attachment Units, and Repeater for 100 Mb/s Operation, Type 100BASE-T (Clauses 21-30)**
 IEEE Std 802.3u-1995 (Supplement to ISO/IEC 8802-3: 1993; ANSI/IEEE Std 802.3, 1993 Edition)
 1995 Page(s):0_1 - 398
[AbstractPlus](#) | Full Text: [PDF](#)(1856 KB) IEEE STD
- ☐ **3. IEEE Standard For Information Technology-Telecommunications And Information Exchange Between Systems- Local And Metropolitan Area Networks- Specific Requirements Part 3: Carrier Sense Multiple Access With Collision Detection (CSMA/CD) Access Method And Physical Layer Specifications**
 IEEE Std 802.3-2002 (Revision of IEEE Std 802.3, 2000 edn)
 2002 Page(s):0_1 - 379852703
[AbstractPlus](#) | Full Text: [PDF](#)(8887 KB) IEEE STD
- ☐ **4. Part 3: Carrier sense multiple access with collision detect on (CSMA/CD) access method and physical layer specifications**
 IEEE Std 802.3, 2000 Edition
 2000 Page(s):i - 1515
[AbstractPlus](#) | Full Text: [PDF](#)(19532 KB) IEEE STD
- ☐ **5. Information technology - telecommunications and information exchange between systems - local and metropolitan area networks - specific requirements. Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications**
 IEEE Std 802.3, 1998 Edition
 28 Sept. 1998
[AbstractPlus](#) | Full Text: [PDF](#)(8216 KB) IEEE STD

Dialing DataStar[options](#)[logoff](#)[feedback](#)[help](#)[databases](#)[easy search](#)**Advanced Search:****INSPEC - 1969 to date (INZZ)**[limit](#)

Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	network WITH communication AND data ADJ packet AND point-to-point WITH signal AND broadcast WITH signal	unrestricted	0	-

[hide](#) | [delete all search steps...](#) | [delete individual search steps...](#)Enter your search term(s): [Search tips](#) ☐ Thesaurus mapping whole document Information added since: or: none
(YYYYMMDD)[search](#)

Select special search terms from the following list(s):

- ☒ Publication year
- ☒ Classification codes A: Physics, 0-1
- ☒ Classification codes A: Physics, 2-3
- ☒ Classification codes A: Physics, 4-5
- ☒ Classification codes A: Physics, 6
- ☒ Classification codes A: Physics, 7
- ☒ Classification codes A: Physics, 8
- ☒ Classification codes A: Physics, 9
- ☒ Classification codes B: Electrical & Electronics, 0-5
- ☒ Classification codes B: Electrical & Electronics, 6-9
- ☒ Classification codes C: Computer & Control
- ☒ Classification codes D: Information Technology
- ☒ Classification codes E: Manufacturing & Production
- ☒ Treatment codes



SCIENCE @ DIRECT

Register or Login: Password: [Athens/Institution Login](#)[Home](#) [Search](#) [Journals](#) [Books](#) [Abstract Databases](#) [My Profile](#) [Alerts](#)[Help](#)Quick Search: within [Search Tips](#)**No results were found**

Click the search tips link on the search form below for additional information.

[All Sources](#) [Journals](#) [Books](#) [Abstract Databases](#) [Sciрус](#)

Enter terms using Boolean connectors (ex: cat OR feline AND nutrition)

Term(s): Sources: ☒ Journals ☒ Book Series ☒ Handbooks ☐ Abstract Databases

select one or more:

Subject:
Agricultural and Biological Sciences
Arts and Humanities
Biochemistry, Genetics and Molecular Biology

Hold down the Ctrl key (or ⌘ key) to select multiple entries.

Dates: ☒ 1995 to: Present ☐ All Years [Search Tips](#)BASIC
ADVANCED**Search History - [Turn On](#)**

Search for articles from our full-text collection and abstracts database using this search form. Click the **Help** button for step-by-step instructions on conducting a search using this form. Consult the Search Tips for information about the use of connectors, wildcards, and other search options which can improve the precision of your search.

[Home](#) [Search](#) [Journals](#) [Books](#) [Abstract Databases](#) [My Profile](#) [Alerts](#)[Help](#)[Contact Us](#) | [Terms & Conditions](#) | [Privacy Policy](#)

Copyright © 2005 Elsevier B.V. All rights reserved. ScienceDirect® is a registered trademark of Elsevier B.V.



SCIENCE @ DIRECT

Register or Login: Password:

Go

[Athens/Institution Login](#)
[Home](#) [Search](#) [Journals](#) [Books](#) [Abstract Databases](#) [My Profile](#) [Alerts](#)
[Help](#)Quick Search: within [All Full-text Sources](#) [Search Tips](#)

results 1 - 13

13 Articles Found

pub-date > 1994 and network and communication and data packet and point-to-point and broadcast and signal and gateway and application and node and transmitting

[Edit Search](#) | [Save Search](#) | [Save as Search Alert](#)
[Article List](#) [Partial Abstracts](#) [Full Abstracts](#)
☐ display checked docs ☐ e-mail articles ☐ export citations
Sort By: [Date](#)

1. ☐ **Bluetooth scatternets: criteria, models and classification** • ARTICLE
Ad Hoc Networks, Volume 3, Issue 6, November 2005, Pages 777-794
 K.E. Persson, D. Manivannan and M. Singhal
[Abstract](#)
2. ☐ **A survey of cross-layer performance enhancements for Mobile IP networks** • ARTICLE
Computer Networks, Volume 49, Issue 2, 5 October 2005, Pages 119-146
 Janise McNair, Tuna Tugcu, Wenye Wang and Jiang (Linda) Xie
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(537 K\)](#)
3. ☐ **Bluetooth scatternet formation: A survey** • ARTICLE
Ad Hoc Networks, Volume 3, Issue 4, July 2005, Pages 403-450
 Roger M. Whitaker, Leigh Hodge and Imrich Chlamtac
[Abstract](#)
4. ☐ **Using standard Internet Protocols and applications in space** • ARTICLE
Computer Networks, Volume 47, Issue 5, 5 April 2005, Pages 603-650
 Keith Hogie, Ed Criscuolo and Ron Parise
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(1175 K\)](#)
5. ☐ **High-Throughput Distributed Spacecraft Network: architecture and multiple access technologies** • ARTICLE
Computer Networks, Volume 47, Issue 5, 5 April 2005, Pages 725-749
 Marcos A. Bergamo
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(943 K\)](#)
6. ☐ **Middleware enhancements for metropolitan area wireless Internet access** • ARTICLE
Future Generation Computer Systems, Volume 18, Issue 5, April 2002, Pages 721-735
 J. S. Pascoe, V. S. Sunderam, U. Varshney and R. J. Loader
[Abstract](#)
7. ☐ **Wireless sensor networks: a survey** • ARTICLE

Computer Networks, Volume 38, Issue 4, 15 March 2002, Pages 393-422

I. F. Akyildiz, W. Su, Y. Sankarasubramaniam and E. Cayirci

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(265 K\)](#)

8. ☐ **Using dynamic configuration to manage a scalable multimedia distribution system • ARTICLE**

Computer Communications, Volume 24, Issue 1, 1 January 2001, Pages 105-123

F. Kon, R. H. Campbell and K. Nahrstedt

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(794 K\)](#)

9. ☐ **ATM over ADSL probe in Telecom Italia environment • ARTICLE**

Computer Networks, Volume 34, Issue 6, December 2000, Pages 965-980

Stanislav Milanovic and Alessandro Maglianella

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(314 K\)](#)

10. ☐ **On the design of IP routers Part 1: Router architectures • ARTICLE**

Journal of Systems Architecture, Volume 46, Issue 6, April 2000, Pages 483-511

James Awaya

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(1061 K\)](#)

11. ☐ **ISDN and the Internet • ARTICLE**

Computer Networks, Volume 31, Issue 22, 29 November 1999, Pages 2325-2339

Kevin DeMartino

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(290 K\)](#)

12. ☐ **A flat wireless ATM LAN architecture with distributed ATM switching in base stations • ARTICLE**

Computer Networks, Volume 31, Issues 9-10, 7 May 1999, Pages 931-942

Y. Du, C. Herrmann, K. P. May and David Evans

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(650 K\)](#)

13. ☐ **Prototyping experiences with classical IP and ARP over signaled ATM connections • ARTICLE**

Journal of Systems and Software, Volume 44, Issue 1, December 1998, Pages 31-43

Christoph L. Schuba, Eugene H. Spafford and Berry Kercheval

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(272 K\)](#)

13 Articles Found

pub-date > 1994 and network and communication and data packet and point-to-point and broadcast and signal and gateway and application and node and transmitting

[Edit Search](#) | [Save Search](#) | [Save as Search Alert](#)

results **1 - 13**

[Home](#) | [Search](#) | [Journals](#) | [Books](#) | [Abstract Databases](#) | [My Profile](#) | [Alerts](#)

 [Help](#)

[Contact Us](#) | [Terms & Conditions](#) | [Privacy Policy](#)

Copyright © 2005 Elsevier B.V. All rights reserved. ScienceDirect® is a registered trademark of Elsevier B.V.



[Subscribe](#) (Full Service) [Register](#) (Limited Service, Free) [Login](#)

Search: ☒ The ACM Digital Library ☐ The Guide

network and communication and data packet and point-to-point



THE ACM DIGITAL LIBRARY

[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used

network and communication and data packet and point to point and broadcast and signal and gateway and application and n

Sort results by

Display results

[Save results to a Binder](#)

[Search Tips](#)

☐ [Open results in a new window](#)

[Try an Advanced Search](#)

[Try this search in The ACM Guide](#)

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scal

1 [Applications and OS: Wireless sensor networks for habitat monitoring](#)



Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson

September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available: [pdf\(542.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of design requirements are developed that cover the hardware design of the nodes, the design of the sensor network and the capabilities for remote data access and management. A system architecture is proposed to address the requirements for habitat monitoring in general, and an instance of the architecture for monitoring seabird nest environment and behavior is presented. The cu ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

2 [Trunking of TDM and narrowband services over IP Networks](#)

James Aweya

January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(418.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &I ...

3 [Secure wireless protocols: An authentication framework for hierarchical ad hoc sensor networks](#)



Mathias Bohge, Wade Trappe

September 2003 **Proceedings of the 2003 ACM workshop on Wireless security**

Publisher: ACM Press

Full text available: [pdf\(263.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent results indicate scalability problems for flat ad hoc networks. To address the issue of scalability, self-organizing hierarchical ad hoc architectures are being investigated. In this paper, we explore the task of providing


data and entity authentication for hierarchical ad hoc sensor networks. Our sensor network consists of three tiers of devices with varying levels of computational and communication capabilities. Our lowest tier consists of computationally constrained sensors that are unable to ...

Keywords: TESLA, ad hoc networks, authentication, handoff

4 Systems II: An analysis of a large scale habitat monitoring application

 Robert Szewczyk, Alan Mainwaring, Joseph Polastre, John Anderson, David Culler
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Publisher: ACM Press

Full text available:  pdf(1.22 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Habitat and environmental monitoring is a driving application for wireless sensor networks. We present an analysis of data from a second generation sensor networks deployed during the summer and autumn of 2003. During a 4 month deployment, these networks, consisting of 150 devices, produced unique datasets for both systems and biological analysis. This paper focuses on nodal and network performance, with an emphasis on lifetime, reliability, and both static and dynamic aspects of single and multi-hop networks.

Keywords: application analysis, habitat monitoring, implementation, long-lived systems, microclimate monitoring, network architecture, sensor networks

5 Notable computer networks

 John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10

Publisher: ACM Press

Full text available:  pdf(4.66 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

6 Local networks

 William Stallings
March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1

Publisher: ACM Press

Full text available:  pdf(3.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


The rapidly evolving field of local network technology has produced a steady stream of local network products in recent years. The IEEE 802 standards that are now taking shape, because of their complexity, do little to narrow the range of alternative technical approaches and at the same time encourage more vendors into the field. The purpose of this paper is to present a systematic, organized overview of the alternative architectures for and design approaches to local networks.

...

7 International standards for data communications: A status report

 Ira W. Cotton, Harold C. Folts
September 1977 **Proceedings of the fifth symposium on Data communications**


Publisher: ACM Press

Full text available:  pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent developments in data communications standards have been patterned on a hierarchical approach to communications system architecture. A number of independent levels have been identified, and standards development has proceeded at its own pace within each level. These levels are identified and recent progress in standardization is discussed for each.

8 Mobile wireless network system simulation


 Joel Short, Rajive Bagrodia, Leonard Kleinrock
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and network**
Publisher: ACM Press
Full text available:  [pdf\(1.63 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 An integration of network communication with workstation architecture

 Gregory G. Finn
October 1991 **ACM SIGCOMM Computer Communication Review**, Volume 21 Issue 5
Publisher: ACM Press
Full text available:  [pdf\(771.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


A workstation may be thought of as a group of cooperatively connected subsystems. Point-to-point channels be used to create a small-scale Gigabit LAN to which these subsystems are attached as nodes. The architecture focus of such a workstation shifts towards its internal LAN. An attractive attribute of this LAN is that its aggregate capacity scales linearly with the number of nodes attached to it. If the link-layer of the internal LAN is made equivalent to the link-layer of the external ...

10 Mobile wireless network system simulation

Joel Short, Rajive Bagrodia, Leonard Kleinrock
December 1995 **Wireless Networks**, Volume 1 Issue 4
Publisher: Kluwer Academic Publishers
Full text available:  [pdf\(1.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)



This paper describes an advanced simulation environment which is used to examine, validate, and predict the performance of mobile wireless network systems. This simulation environment overcomes many of the limitations found with analytical models, experimentation, and other commercial network simulators available on the market today. We identify a set of components which make up mobile wireless systems and describe a set of flexible models which can be used to model the various components ...

11 Communications networks for the force XXI digitized battlefield

Paul Sass
October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3
Publisher: Kluwer Academic Publishers
Full text available:  [pdf\(745.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In striving to meet the increasing demands for timely delivery of multimedia information to the warfighter of the 21st Century, the US Army is undergoing a gradual evolution from its "legacy" communications networks to a flexible internetwork architecture based solidly on the underlying communications protocols and technology of the commercial Internet. The framework for this new digitized battlefield, as described in the DoD's Joint Technical Architecture, is taken from the ...

12 Platforms: Bluetooth and sensor networks: a reality check

 Martin Leopold, Mads Bondo Dydenborg, Philippe Bonnet
November 2003 **Proceedings of the 1st international conference on Embedded networked sensor system**
Publisher: ACM Press
Full text available:  [pdf\(356.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The current generation of sensor nodes rely on commodity components. The choice of the radio is particularly important as it impacts not only energy consumption but also software design (e.g., network self-assembly, multi-hop routing and in-network processing). Bluetooth is one of the most popular commodity radios for wireless device communication. Representative of the frequency hopping spread spectrum radios, it is a natural alternative to broadcast radios in the context of sensor networks. The question ...

Keywords: bluetooth, mac layer, network self-assembly, sensor nodes

13 Security: Ariadne: a secure on-demand routing protocol for ad hoc networks

 Yih-Chun Hu, Adrian Perrig, David B. Johnson
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and network**

Publisher: ACM Press

Full text available:  pdf(308.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

a secure on-demand routing protocol for ad hoc networks.

Keywords: ad hoc network routing, routing, security

14 Mobile networking in the Internet

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(166.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Computers capable of attaching to the Internet from many places are likely to grow in popularity until they do the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

15 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**


Publisher: IBM Press

Full text available:  pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use, Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial communication ...

16 The use of message-based multicomputer components to construct gigabit networks

 Danny Cohen, Gregory G. Finn, Robert Felderman, Annette DeSchon

July 1993 **ACM SIGCOMM Computer Communication Review**, Volume 23 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The typical node of a message-based multicomputer consists of a microprocessor, router and memory. At the California Institute of Technology, the Mosaic project has integrated such a node onto a single chip. That reduction in scale fundamentally changes the scope of node application, since nodes become both very small, and inexpensive. Mosaic nodes may be employed to process, to generate, or to receive data. Since the router in a Mosaic node is independent of the microprocessor, computation and routing ...

17 Hierarchically-organized, multihop mobile wireless networks for quality-of-service support

Ram Ramanathan, Martha Steenstrup

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1


Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(429.81 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

MMWN is a modular system of adaptive link- and network-layer algorithms that provides a foundation on which build mechanisms for quality-of-service provision in large, multihop mobile wireless networks. Such networks : practical means for creating a communications infrastructure where none yet exists or where the previously ex infrastructure has been severely damaged. These networks provide communications for such diverse purposes tactical maneuvering and strategic planning ...

18 [Encryption and Secure Computer Networks](#)


 Gerald J. Popek, Charles S. Kline
December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Publisher: ACM Press


Full text available:  [pdf\(2.50 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 [Performance and scalability of mobile wireless base-station-oriented networks](#)

 Stuart D. Milner, Sohil Thakkar, Karthikeyan Chandrashekar, Wei-Lun Chen
April 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.10 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper focuses on the performance and scalability of mobile, base-station-oriented wireless networks, whic been the subject of research and development projects sponsored by the Defense Advanced Research Projects Agency. The background and rationale for such networks is presented as well as performance and scalability a of their routing, mobility, and quality of service models. Using systems-oriented, large-scale discrete event simulation, both performance scalability and comple ...

20 [Mobile connectivity protocols and throughput measurements in the Ricochet Microcellular data network \(MCDN\) system](#)

 Mike Ritter, Robert J. Friday, Rodrigo Garces, Weill San Filippo, Cuong-Thinh Nguyen
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and network**

Publisher: ACM Press

Full text available:  [pdf\(178.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the protocols implemented in the Ricochet MCDN system to provide continuous connectivity to mc users traveling up to 70 mph. These protocols are general in nature for any frequency-hopping microcell-based system, particularly those that follow the FCC part 15.247 rules [9] and operate in unlicensed spectrum. We al present throughput measurements as a function of velocity and describe a model to predict those numbers ba upon the protocols implemented. The MCDN system is a ...

Keywords: MCDN system architecture, Mobility, wireless networks, wireless protocols, wireless routing

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.
[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

WEST Search History

[Hide Items](#)[Restore](#)[Clear](#)[Cancel](#)

DATE: Monday, November 14, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L3	L2 and gateway and application and node?	7
<input type="checkbox"/>	L2	(network with communication) and data packet? and (point-to-point with signal?) and (broadcast with signal?)	56
<input type="checkbox"/>	L1	rodriguez.in. and (network with communication) and data packet? and (point-to-point with signal?) and (broadcast with signal?)	1

END OF SEARCH HISTORY

Hit List

[First Hit](#)
[Clear](#)
[Generate Collection](#)
[Print](#)
[Fwd Refs](#)
[Bkwd Refs](#)
[Generate OACS](#)

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20020042706 A1

Using default format because multiple data bases are involved.

L1: Entry 1 of 1

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042706

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042706 A1

TITLE: Network simulation system and method

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rodriguez, Joe A.	Palmdale	CA	US

US-CL-CURRENT: 703/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

[Clear](#)
[Generate Collection](#)
[Print](#)
[Fwd Refs](#)
[Bkwd Refs](#)
[Generate OACS](#)

Term	Documents
RODRIGUEZ	14169
RODRIGUEZES	0
NETWORK	531396
NETWORKS	227265
COMMUNICATION	839842
COMMUNICATIONS	329878
DATA	1418986
DATUM	21585
POINT-TO-POINT	26541
POINT-TO-POINTS	11
BROADCAST	86818
(RODRIGUEZ.IN. AND (NETWORK WITH COMMUNICATION) AND DATA PACKET? AND (POINT-TO-POINT WITH SIGNAL?) AND (BROADCAST WITH SIGNAL?)).PGPB,USPT.	1

There are more results than shown above. Click here to view the entire set.

Display Format: **Change Format**

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

[First HitClear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20020191250 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 7

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020191250

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020191250 A1

TITLE: Communications network for a metropolitan area

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graves, Alan F.	Kanata		CA
Cunningham, Ian M.	Burnstown		CA
Stark, Ryan	Ottawa		CA
Felske, Kent E.	Kanata		CA
Hobbs, Chris	Ottawa		CA
Watkins, John H.	Ottawa		CA

US-CL-CURRENT: [398/82](#); [398/46](#), [398/66](#), [398/75](#), [398/79](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 2. Document ID: US 20020042706 A1

L3: Entry 2 of 7

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042706

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042706 A1

TITLE: Network simulation system and method

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rodriguez, Joe A.	Palmdale	CA	US

US-CL-CURRENT: [703/22](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 3. Document ID: US 20010030785 A1

L3: Entry 3 of 7

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010030785

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010030785 A1

TITLE: System and method for distributing information via a communication network

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Pangrac, David M.	Port Aransas	TX	US
Gall, Donald T.	Port Aransas	TX	US
Rose, Steven W.	Haliimaile	HI	US

US-CL-CURRENT: 398/72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 4. Document ID: US 6041056 A

L3: Entry 4 of 7

File: USPT

Mar 21, 2000

US-PAT-NO: 6041056

DOCUMENT-IDENTIFIER: US 6041056 A

TITLE: Full service network having distributed architecture

DATE-ISSUED: March 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bigham; John A.	Pottstown	PA		
Little; Dave	Columbia	MD		
Mihm; Edward C.	Warminster	PA		
Sistanizadeh; Kamran	Arlington	VA		
Amin-Salehi; Bahman	Washington	DC		
Jain; Alpna	Falls Church	VA		
Lightfoot; Regina	New Carrollton	MD		
Arthur; Ulric E.	Burtonsville	MD		

US-CL-CURRENT: 370/395.64; 370/401, 370/431, 370/474, 725/106, 725/114

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	-----------	-------

☐ 5. Document ID: US 5684799 A

L3: Entry 5 of 7

File: USPT

Nov 4, 1997

US-PAT-NO: 5684799

DOCUMENT-IDENTIFIER: US 5684799 A

TITLE: Full service network having distributed architecture

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bigham; John A.	Pottstown	PA		
Little; Dave	Columbia	MD		
Mihm; Edward C.	Warminster	PA		
Sistanizadeh; Kamran	Arlington	VA		
Amin-Salehi; Bahman	Washington	DC		
Jain; Alpna	Falls Church	VA		
Lightfoot; Regina	New Carrollton	MD		
Arthur; Ulric E.	Burtonsville	MD		

US-CL-CURRENT: 370/397; 370/352, 370/474, 725/116, 725/119, 725/129

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	-----------	-------

☐ 6. Document ID: US 5677905 A

L3: Entry 6 of 7

File: USPT

Oct 14, 1997

US-PAT-NO: 5677905

DOCUMENT-IDENTIFIER: US 5677905 A

TITLE: Access subnetwork controller for video dial tone networks

DATE-ISSUED: October 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bigham; John A.	Pottstown	PA		
Goodman; Bill	Collegeville	PA		
Sistanizadeh; Kamran	Arlington	VA		
Lightfoot; Regina	New Carrollton	MD		
Mihm; Edward C.	Warminster	PA		
Arthur; Ulric E.	Burtonville	MD		
Amin-Salehi; Bahman	Washington	DC		
Brenner; Greg	Tinton Falls	NJ		

Clark; Douglas

Tinton Falls

NJ

US-CL-CURRENT: 370/395.21; 725/104, 725/119, 725/129, 725/87, 725/95

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	-----------	-------

☐ 7. Document ID: US 5544161 A

L3: Entry 7 of 7

File: USPT

Aug 6, 1996

US-PAT-NO: 5544161

DOCUMENT-IDENTIFIER: US 5544161 A

TITLE: ATM packet demultiplexer for use in full service network having distributed architecture

DATE-ISSUED: August 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bigham; John A.	Pottstown	PA		
Sistanizadeh; Kamran	Arlington	VA		
Little; Dave	Columbia	MD		

US-CL-CURRENT: 370/397; 370/474, 725/119, 725/129, 725/138, 725/140, 725/152

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	-----------	-------

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
GATEWAY	42538
GATEWAYS	14478
APPLICATION	2780098
APPLICATIONS	1482700
NODE?	0
NODEA	52
NODEB	150
NODEC	33
NODED	144
NODEE	15
NODEF	15
(L2 AND GATEWAY AND APPLICATION AND NODE?).PGPB,USPT.	7

There are more results than shown above. [Click here to view the entire set.](#)